

Title (en)
Device for heating fluids

Title (de)
Flüssigkeitsheizgerät

Title (fr)
Appareil pour chauffer des fluides

Publication
EP 2661151 A1 20131106 (EN)

Application
EP 13425054 A 20130410

Priority
IT VI20120103 A 20120502

Abstract (en)
A device for heating fluids, in particular for heating at least a fluid circulating in a heating structure such as a water or oil radiator and/or a heated towel rail, comprising a casing (10) made of conductive material, within which at least one resistive element is placed, said resistive element having respective electric terminals connected to respective electrical conductors, which protrude from said casing (10) passing through a pipe fitting (11), which is placed coaxially with respect to said casing (10) and which is made of thermally conductive material, so that said electrical conductors are connected to an electric and/or electronic power circuit having at least one TRIAC power switch (12), which is connected in turn, on one side, to said at least one resistive element and, on the other side, to said power circuit; in particular, said power switch (12) is placed inside a compartment or duct (16), made internally to said pipe fitting (11) through at least one opening (14) provided at one end of the pipe fitting (11), and said TRIAC power switch (12) is also fixed to at least one portion of the inner walls (13) of the pipe fitting (11).

IPC 8 full level
H05B 3/48 (2006.01); **F24H 9/18** (2006.01); **H05B 1/02** (2006.01)

CPC (source: EP)
F24H 1/102 (2013.01); **F24H 9/1818** (2013.01); **H05B 1/0269** (2013.01); **H05B 3/48** (2013.01); **F24D 2220/2009** (2013.01)

Citation (search report)
• [X] EP 1278400 A2 20030122 - JEDAC [FR]
• [X] EP 0317435 A1 19890524 - ANDRE DAVID
• [X] EP 1655546 A1 20060510 - BORELLI LUIGI [IT]
• [A] WO 9712182 A1 19970403 - STOKES AUSTRALASIA [AU], et al

Cited by
EP4271128A1; IT202200008582A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2661151 A1 20131106; EP 2661151 B1 20170705; IT VI20120103 A1 20131103

DOCDB simple family (application)
EP 13425054 A 20130410; IT VI20120103 A 20120502